

**Behavioral-Synthesis Electronic Design Automation Tool
Business-To-Business Application Service Provider**

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ABSTRACT

A business-to-business application service provider includes an Internet website and webserver with EDA-on-demand solutions for system-on-a-chip designers. Such website allows electronic designs in hardware description language to be uploaded into a front-end EDA design environment. A behavioral model simulation tool hosted privately on the webserver tests and validates the design. Such tool executes only in the secure environment of the business-to-business application service provider. The validated solution is then downloaded back over the Internet for a pay-per-use fee to the customer, and in a form ready to be placed and routed by a back-end EDA tool. Such validated design solutions are also downloadable to others in exchange for other designs, or available in technology libraries. The intellectual property created can be re-used, sold, shared, exchanged, and otherwise distributed efficiently and easily from a central for-profit clearinghouse.